



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Claude P. Selitrennikoff *et al.*

Serial No.: 09/927,734

Filed: 8/10/2001

Entitled: **Methods For The Identification Of Fungal Glucose
Utilization Inhibitors And Antifungal Agents**

Group No.: to be assigned

Examiner: to be assigned

**INFORMATION DISCLOSURE RECEIVED
STATEMENT TRANSMITTAL**

MAR 27 2002


Assistant Commissioner for Patents
Washington, D.C. 20231

TECH CENTER 1600/2900

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)(1)(i)(A)

I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Dated: October 1, 2001

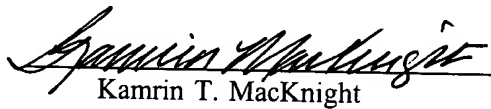
By: 
James R. Davenport

Sir or Madam:

Enclosed please find an Information Disclosure Statement and Form PTO-1449, including copies of the references contained thereon, for filing in the U.S. Patent and Trademark Office.

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1290. **An originally executed duplicate of this transmittal is enclosed for this purpose.**

Dated: October 1, 2001


Kamrin T. MacKnight
Registration No. 38,230

MEDLEN & CARROLL, LLP
101 Howard Street, Suite 350
San Francisco, California 94105
415/904-6500



PATENT

Attorney Docket No. MYCOLOGX-06279

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Claude P. Selitrennikoff *et al.*

Serial No.: 09/927,734

Group No.: to be assigned

Filed: 8/10/01

Examiner: to be assigned

Entitled: **Methods For The Identification Of Fungal
Glucose Utilization Inhibitors And Antifungal
Agents**

INFORMATION DISCLOSURE STATEMENT

RECEIVED

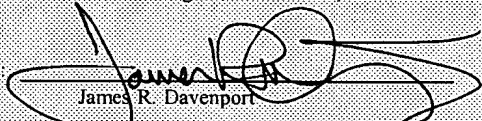
Assistant Commissioner for Patents
Washington, D.C. 20231

MAR 27 2002

TECH CENTER 1600/2900

CERTIFICATE OF MAILING UNDER 37 CFR § 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231, on
October 1, 2001.

By: 
James R. Davenport

Sir or Madam:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

The following printed publications are referred to in the body of the specification:

- Anaissie, "Opportunistic mycoses in the immunocompromised host: experience at a cancer center and review," *Clin. Infect. Dis.*, 14(Suppl 1):S43-S53 [1992];
- Badet *et al.*, "Glucosamine synthetase from *Escherichia coli*: Purification, properties, and glutamine-utilizing site location," *Biochemistry* 26:1940-1948 [1987];
- Beck-Sague *et al.*, "Secular trends in the epidemiology of nosocomial fungal infections in the United States, 1980-1990," *J. Infect. Dis.*, 167:1247-1251 [1993];

- Boehmelt *et al.*, "Cloning and characterization of the murine glucosamine-6-phosphate acetyltransferase EMeg32," *J. Biol. Chem.* 275:12821-12832 [2000];
- Borgia, "Roles of the *orlA*, *tsE*, and *bimG* genes of *Aspergillus nidulans* in chitin synthesis," *J. Bacteriol.*, 174:384-389 [1992];
- Boschman *et al.*, "Thirteen-year evolution of azole resistance in yeast isolates and prevalence of resistant strains carried by cancer patients at a large medical center," *Antimicrob. Agents Chemother.*, 42:734-738 [1998];
- Bow, "Invasive fungal infections in patients receiving intensive cytotoxic therapy for cancer," *Br. J. Haematol.*, 101(Suppl 1):1-4 [1998];
- Bulawa, "Genetics and molecular biology of chitin synthesis in fungi," *Annu. Rev. Microbiol.*, 47:505-534 [1993];
- Clifton *et al.*, "Glycolysis mutants in *Saccharomyces cerevisiae*," *Genetics* 88:1-11 [1978];
- Cole, "Basic biology of fungi," In Baron (ed.) *Medical Microbiology*, 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 903-911 [1996];
- Cox and Perfect, "Fungal infections," *Curr. Opin. Infect. Dis.* 6:422-426 [1993];
- Datta *et al.*, "Current trends in *Candida albicans* research," *Adv. Microb. Physiol.* 30:53-88 [1989];
- Decker *et al.*, "Structure-activity relationships of the nikkomycins," *J. Gen. Microbiol.*, 137:1805-1813 [1991];
- Denning *et al.*, "Pulmonary aspergillosis in the acquired immunodeficiency syndrome," *New Eng. J. Med.*, 324:654-662 [1992];
- Dixon and Walsh, "Antifungal Agents," In Baron (ed.) *Medical Microbiology*, 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 926-932 [1996];
- Endo *et al.*, "Feedback inhibition of L-glutamine D-fructose 6-phosphate amidotransferase by uridine diphosphate N-acetylglucosamine in *Neurospora crassa*," *J. Bacteriol.*, 103:588-594 [1970];

- Etchebehere and Da Costa Maia, "Phosphorylation-dependent regulation of amidotransferase during development of *Blastocladiella emersonii*," *Arch. Biochem. Biophys.*, 272:301-310 [1989];
- Etchebehere *et al.*, "Development regulation of hexosamine biosynthesis by protein phosphatases 2A and 2C in *Blastocladiella emersonii*," *J. Bacteriol.*, 175:5022-5027 [1993];
- Fox, "Fungal infection rates are increasing," *ASM News* 59:515-518 [1993];
- Goodwin *et al.*, "A nationwide survey of clinical laboratory methodologies for fungal infections," *J. Med. Vet. Mycol.*, 30:153-160 [1992];
- Gopal *et al.*, "Enzymes of N-acetylglucosamine metabolism during germ-tube formation in *Candida albicans*," *J. Gen. Microbiol.* 128:2319-2326 [1982];
- Graybill, "The future of antifungal therapy," *Clin. Infect. Dis.*, 22(Suppl 2):S166-S178 [1996];
- Hardre *et al.*, "Competitive inhibition of *Trypanosoma brucei* phosphoglucose isomerase by D-arabinose-5-phosphate derivatives," *J. Enzyme Inhib.* 15:509-515 [2000];
- Herrera and Pascal, "Genetical and biochemical studies of glucosephosphate isomerase deficient mutants in *Saccharomyces cerevisiae*," *J. Gen. Microbiol.* 108:305-310 [1978];
- Katz and Rosenberger, "A mutation in *Aspergillus nidulans* producing hyphal walls which lack chitin," *Biochim. Biophys. Acta.*, 208:452-460 [1970];
- Leloir and Cardini, "The biosynthesis of glucosamine," *Biochim. Biophys. Acta.*, 12:15-22 [1953];
- Lipke and Ovalle, "Cell wall architecture in yeast: New structure and new challenges," *J. Bacteriol.* 185:3735-3740 [1998];
- Lortholary *et al.*, "Invasive aspergillosis in patients with acquired immunodeficiency syndrome: report of 33 cases," *Amer. J. Med.*, 95:177-187 [1993];
- Marchand *et al.*, "Glucosephosphate isomerase from *Trypanosoma brucei*," *Eur. J. Biochem.* 184:455-464 [1989];

- McCullough, "Importance of chitin synthesis for fungal growth and as a target for antifungal agents," In Fernandes (ed.), *New Approaches for Antifungal Drugs* (Boston : Birkhauser) pp. 32-45 [1992];
- McGinnis and Tyring, "Introduction to Mycology," In Baron (ed.), *Medical Microbiology*, 4th edition, (Galveston TX: University of Texas Medical Branch) pp. 893-902 [1996];
- McKnight *et al.*, "Molecular cloning, cDNA sequence, and bacterial expression of human glutamine:fructose-6-phosphate amidotransferase," *J. Biol. Chem.*, 267:25208-25212 [1992];
- Mellado *et al.*, "A multigene family related to chitin synthase genes of yeast in the opportunistic pathogen *Aspergillus fumigatus*," *Mol. Gen. Genet.*, 246:353-359 [1995];
- Meng *et al.*, "Probing the location and function of the conserved histidine residue of phosphoglucose isomerase by using an active site directed inhibitor N-bromoacetyethanolamine phosphate," *Protein Sci.* 8:2438-2443 [1999];
- Meunier, *et al.*, "Candidemia in immunocompromised patients," *Clin. Infect. Dis.*, 14(Suppl 1):S120-S125 [1992];
- Milewski *et al.*, "Mechanism of action of anticandidal dipeptides containing inhibitors of glucosamine-6-phosphate synthase," *Antimicrob. Agents Chemo.*, 35:36-43 [1991];
- Miller *et al.*, "Pulmonary aspergillosis in patients with AIDS," *Chest* 105:37-44 [1994];
- Mio *et al.*, "Role of three chitin synthase genes in the growth of *Candida albicans*," *J. Bacteriol.* 178:2416-2419 [1996];
- Mio *et al.*, "*Saccharomyces cerevisiae* *GNA1*, an essential gene encoding a novel acetyltransferase involved in UDP-N-acetylglucosamine synthesis," *J. Biol. Chem.* 274:424-429 [1999];
- Mio *et al.*, "Reduced virulence of *Candida albicans* mutants lacking the *GNA1* gene encoding glucosamine-6-phosphate acetyltransferase," *Microbiology* 146:1753-1758 [2000];

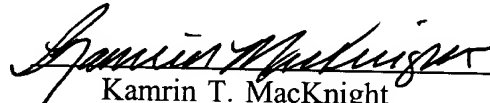
- Mitchell, "Opportunistic mycoses," In Joklik *et al.* [eds], *Zinsser Microbiology*, (Norwalk, CT: Appleton, Century-Crofts) pp. 1183-1197 [1984];
- Monks *et al.*, "Feasibility of a high-flux anticancer drug screen using a diverse panel of cultured human tumor cell lines," *J Natl Cancer Inst* 83:757-766 [1991];
- Navon *et al.*, "Phosphorus-31 nuclear magnetic resonance studies of wild type and glycolytic pathway mutants of *Saccharomyces cerevisiae*," *Biochemistry* 18:4487-4499 [1979];
- Noltmann, "Phosphoglucose isomerase," *Methods Enzymol.* 9:557-565 [1966];
- Polis and Kovacs, "Fungal Infections in Patients with the Acquired Immunodeficiency Syndrome," in DeVita *et al.* (eds), AIDS: Biology, Diagnosis, Treatment, and Prevention, 4th ed., (Philadelphia, PA: Lippincott-Raven Publishers) pp. 231-244 [1997];
- Riddles *et al.*, "Reassessment of Ellman's reagent," *Methods Enzymol.* 91:49-61 [1983];
- Russell and Srb, "A study of L-glutamine:D-fructose 6-phosphate amidotransferase in certain developmental mutants of *Neurospora crassa*," *Molec. Gen. Genet.*, 129:77-86 [1974];
- Selitrennikoff and Ostroff, "Emerging therapeutic cell wall targets in fungal infections," *Emerging Therapeutic Targets* 3:53-72 [1999];
- Selitrennikoff and Sonneborn, "Post-translational control of *de Novo* cell wall formation during *Blastocladiella emersonii* zoospore germination," *Develop. Biol.*, 54:37-51 [1976];
- Selitrennikoff and Sonneborn, "The last two pathway-specific enzyme activities of hexosamine biosynthesis are present in *Blastocladiella emersonii* zoospores prior to germination," *Biochim. Biophys. Acta.*, 451:408-416 [1976];
- Sheehan, "Current and emerging azole antifungal agents," *Clin. Microbiol. Rev.* 12:40-79 [1999];
- Singh and Datta, "Induction of N-acetylglucosamine-catabolic pathway in spheroplasts of *Candida albicans*," *Biochem. J.* 178:427-431 [1979];

- Sigler and Kennedy, "*Aspergillus*, *Fusarium*, and other opportunistic moniliaceous fungi," In Murray *et al.* (eds.), *Manual of Clinical Microbiology*, 7th edition, (Washington DC: ASM Press) pp. 1213-1241 [1999];
- Smith *et al.*, "Isolation and characterization of the *GFAI* gene encoding the glutamine:fructose-6-phosphate amidotransferase of *Candida albicans*," *J. Bacteriol.*, 178:2320-2327 [1996];
- Smits *et al.*, "Cell wall dynamics in yeast," *Curr. Opin. Microbiol.* 2:348-352 [1999];
- Sun *et al.*, "The crystal structure of a multifunctional protein: Phosphoglucose isomerase/autocrine motility factor/neuroleukin," *Proc. Natl. Acad. Sci. USA* 96:5412-5417 [1999];
- Tokumura and Horie, "Kinetics of nikkomycin Z degradation in aqueous solution and in plasma," *Biol. Pharm. Bull.*, 20:577-580 [1997];
- Walsh and Dixon, "Spectrum of mycoses," In Baron (ed.), *Medical Microbiology*, 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 919-925 [1996];
- Warnock, "Fungal infections in neutropenia: current problems and chemotherapeutic control," *J. Antimicrob. Chemother.*, 41:95-105 [1998];
- Warren and Hazen, "*Candida*, *Cryptococcus*, and other yeasts of medical importance," In Murray *et al.* (eds.), *Manual of Clinical Microbiology*, 7th edition, (Washington, DC: ASM Press) pp. 1184-1199 [1999];
- Watzele and Tanner, "Cloning of the glutamine:fructose-6-phosphate amidotransferase gene from yeast," *J. Biol. Chem.*, 264:8753-8758 [1989];
- White, "Antifungal drug resistance in *Candida albicans*," *ASM News* 63:427-433 [1997];
- White *et al.*, "Clinical, cellular, and molecular factors that contribute to antifungal drug resistance," *Clin. Microbiol. Rev.*, 11:382-402 [1998];
- Winterburn and Phelps, "Purification and some kinetic properties of rat liver glucosamine synthetase," *Biochem. J.*, 121:701-709 [1971];
- Zalkin, "Glucosamine-6-phosphate synthase," *Methods Enzymol.*, 113:278-281 [1985];

- Zhou *et al.*, "Regulation of glutamine:fructose-6-phosphate amidotransferase by cAMP-dependent protein kinase," *Diabetes* 47:1836-1840 [1998];
- GenBank™ accession number AF185571;
- GenBank™ accession number U40369;
- GenBank™ accession number X14672; and
- <http://dtp.nci.nih.gov/docs/compare/compare%5Fmethodology.html>.

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: October 1, 2001


Kamrin T. MacKnight
Registration No. 38,230

MEDLEN & CARROLL, LLP
101 Howard Street, Suite 350
San Francisco, California 94105
415/904-6500

FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney Docket No.: MYCOLOGX-
06279

Serial No.: 09/927,734

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Several Sheets If Necessary)Applicant: Claude P. Selitrennikoff *et al.*

(37 CFR § 1.98(b))

Filing Date: 8/10/2001

Group Art Unit:

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	1	Anaissie, "Opportunistic mycoses in the immunocompromised host: experience at a cancer center and review," <i>Clin. Infect. Dis.</i> , 14(Suppl 1):S43-S53 [1992]
	2	Badet <i>et al.</i> , "Glucosamine synthetase from <i>Escherichia coli</i> : Purification, properties, and glutamine-utilizing site location," <i>Biochemistry</i> 26:1940-1948 [1987]
	3	Beck-Sague <i>et al.</i> , "Secular trends in the epidemiology of nosocomial fungal infections in the United States, 1980-1990," <i>J. Infect. Dis.</i> , 167:1247-1251 [1993]
	4	Boehmelt <i>et al.</i> , "Cloning and characterization of the murine glucosamine-6-phosphate acetyltransferase EMeg32," <i>J. Biol. Chem.</i> 275:12821-12832 [2000]
	5	Borgia, "Roles of the <i>orlA</i> , <i>tsE</i> , and <i>bimG</i> genes of <i>Aspergillus nidulans</i> in chitin synthesis," <i>J. Bacteriol.</i> , 174:384-389 [1992]
	6	Boschman <i>et al.</i> , "Thirteen-year evolution of azole resistance in yeast isolates and prevalence of resistant strains carried by cancer patients at a large medical center," <i>Antimicrob. Agents Chemother.</i> , 42:734-738 [1998]
	7	Bow, "Invasive fungal infections in patients receiving intensive cytotoxic therapy for cancer," <i>Br. J. Haematol.</i> , 101(Suppl 1):1-4 [1998]
	8	Bulawa, "Genetics and molecular biology of chitin synthesis in fungi," <i>Annu. Rev. Microbiol.</i> , 47:505-534 [1993]
	9	Clifton <i>et al.</i> , "Glycolysis mutants in <i>Saccharomyces cerevisiae</i> ," <i>Genetics</i> 88:1-11 [1978]
	10	Cole, "Basic biology of fungi," In Baron (ed.) <i>Medical Microbiology</i> , 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 903-911 [1996]
	11	Cox and Perfect, "Fungal infections," <i>Curr. Opin. Infect. Dis.</i> 6:422-426 [1993]
	12	Datta <i>et al.</i> , "Current trends in <i>Candida albicans</i> research," <i>Adv. Microb. Physiol.</i> 30:53-88 [1989]
	13	Decker <i>et al.</i> , "Structure-activity relationships of the nikkomycins," <i>J. Gen. Microbiol.</i> , 137:1805-1813 [1991]
	14	Denning <i>et al.</i> , "Pulmonary aspergillosis in the acquired immunodeficiency syndrome," <i>New Eng. J. Med.</i> , 324:654-662 [1992]
	15	Dixon and Walsh, "Antifungal Agents," In Baron (ed.) <i>Medical Microbiology</i> , 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 926-932 [1996]
	16	Endo <i>et al.</i> , "Feedback inhibition of L-glutamine D-fructose 6-phosphate amidotransferase by uridine diphosphate N-acetylglucosamine in <i>Neurospora crassa</i> ," <i>J. Bacteriol.</i> , 103:588-594 [1970]
	17	Etchebehere and Da Costa Maia, "Phosphorylation-dependent regulation of amidotransferase during development of <i>Blastocladiella emersonii</i> ," <i>Arch. Biochem. Biophys.</i> , 272:301-310 [1989]
	18	Etchebehere <i>et al.</i> , "Development regulation of hexosamine biosynthesis by protein phosphatases 2A and 2C in <i>Blastocladiella emersonii</i> ," <i>J. Bacteriol.</i> , 175:5022-5027 [1993]
	19	Fox, "Fungal infection rates are increasing," <i>ASM News</i> 59:515-518 [1993]
	20	Goodwin <i>et al.</i> , "A nationwide survey of clinical laboratory methodologies for fungal infections," <i>J. Med. Vet. Mycol.</i> , 30:153-160 [1992]
	21	Gopal <i>et al.</i> , "Enzymes of N-acetylglucosamine metabolism during germ-tube formation in <i>Candida albicans</i> ," <i>J. Gen. Microbiol.</i> 128:2319-2326 [1982]
	22	Graybill, "The future of antifungal therapy," <i>Clin. Infect. Dis.</i> , 22(Suppl 2):S166-S178 [1996]

Examiner:

Date Considered:

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney Docket No.: MYCOLOGX-
06279

Serial No.: 09/927,734

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Several Sheets If Necessary)

(37 CFR § 1.98(b))

Applicant: Claude P. Selitrennikoff *et al.*

Filing Date: 8/10/2001

Group Art Unit:

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

23	Hardre <i>et al.</i> , "Competitive inhibition of <i>Trypanosoma brucei</i> phosphoglucose isomerase by D-arabinose-5-phosphate derivatives," <i>J. Enzyme Inhib.</i> 15:509-515 [2000]
24	Herrera and Pascal, "Genetical and biochemical studies of glucosephosphate isomerase deficient mutants in <i>Saccharomyces cerevisiae</i> ," <i>J. Gen. Microbiol.</i> 108:305-310 [1978]
25	Katz and Rosenberger, "A mutation in <i>Aspergillus nidulans</i> producing hyphal walls which lack chitin," <i>Biochim. Biophys. Acta.</i> , 208:452-460 [1970]
26	Leloir and Cardini, "The biosynthesis of glucosamine," <i>Biochim. Biophys. Acta.</i> , 12:15-22 [1953]
27	Lipke and Ovalle, "Cell wall architecture in yeast: New structure and new challenges," <i>J. Bacteriol.</i> 185:3735-3740 [1998]
28	Lortholary <i>et al.</i> , "Invasive aspergillosis in patients with acquired immunodeficiency syndrome: report of 33 cases," <i>Amer. J. Med.</i> , 95:177-187 [1993]
29	Marchand <i>et al.</i> , "Glucosephosphate isomerase from <i>Trypanosoma brucei</i> ," <i>Eur. J. Biochem.</i> 184:455-464 [1989]
30	McCullough, "Importance of chitin synthesis for fungal growth and as a target for antifungal agents," In Fernandes (ed.), <i>New Approaches for Antifungal Drugs</i> (Boston : Birkhauser) pp. 32-45 [1992]
31	McGinnis and Tyring, "Introduction to Mycology," In Baron (ed.), <i>Medical Microbiology</i> , 4th edition, (Galveston TX: University of Texas Medical Branch) pp. 893-902 [1996]
32	McKnight <i>et al.</i> , "Molecular cloning, cDNA sequence, and bacterial expression of human glutamine:fructose-6-phosphate amidotransferase," <i>J. Biol. Chem.</i> , 267:25208-25212 [1992]
33	Mellado <i>et al.</i> , "A multigene family related to chitin synthase genes of yeast in the opportunistic pathogen <i>Aspergillus fumigatus</i> ," <i>Mol. Gen. Genet.</i> , 246:353-359 [1995]
34	Meng <i>et al.</i> , "Probing the location and function of the conserved histidine residue of phosphoglucose isomerase by using an active site directed inhibitor N-bromoacetyethanolamine phosphate," <i>Protein Sci.</i> 8:2438-2443 [1999]
35	Meunier, <i>et al.</i> , "Candidemia in immunocompromised patients," <i>Clin. Infect. Dis.</i> , 14(Suppl 1):S120-S125 [1992]
36	Milewski <i>et al.</i> , "Mechanism of action of anticandidal dipeptides containing inhibitors of glucosamine-6-phosphate synthase," <i>Antimicrob. Agents Chemo.</i> , 35:36-43 [1991]
37	Miller <i>et al.</i> , "Pulmonary aspergillosis in patients with AIDS," <i>Chest</i> 105:37-44 [1994]
38	Mio <i>et al.</i> , "Role of three chitin synthase genes in the growth of <i>Candida albicans</i> ," <i>J. Bacteriol.</i> 178:2416-2419 [1996]
39	Mio <i>et al.</i> , " <i>Saccharomyces cerevisiae</i> <i>GNA1</i> , an essential gene encoding a novel acetyltransferase involved in UDP-N-acetylglucosamine synthesis," <i>J. Biol. Chem.</i> 274:424-429 [1999]
40	Mio <i>et al.</i> , "Reduced virulence of <i>Candida albicans</i> mutants lacking the <i>GNA1</i> gene encoding glucosamine-6-phosphate acetyltransferase," <i>Microbiology</i> 146:1753-1758 [2000]
41	Mitchell, "Opportunistic mycoses," In Joklik <i>et al.</i> [eds], <i>Zinsser Microbiology</i> , (Norwalk, CT: Appleton, Century-Crofts) pp. 1183-1197 [1984]
42	Monks <i>et al.</i> , "Feasibility of a high-flux anticancer drug screen using a diverse panel of cultured human tumor cell lines," <i>J Natl Cancer Inst</i> 83:757-766 [1991]
43	Navon <i>et al.</i> , "Phosphorus-31 nuclear magnetic resonance studies of wild type and glycolytic pathway mutants of <i>Saccharomyces cerevisiae</i> ," <i>Biochemistry</i> 18:4487-4499 [1979]
44	Noltmann, "Phosphoglucose isomerase," <i>Methods Enzymol.</i> 9:557-565 [1966]
45	Polis and Kovacs, "Fungal Infections in Patients with the Acquired Immunodeficiency Syndrome," in DeVita <i>et al.</i> (eds), <i>AIDS: Biology, Diagnosis, Treatment, and Prevention</i> , 4th ed., (Philadelphia, PA: Lippincott-Raven Publishers) pp. 231-244 [1997]
46	Riddles <i>et al.</i> , "Reassessment of Ellman's reagent," <i>Methods Enzymol.</i> 91:49-61 [1983]
47	Russell and Srb, "A study of L-glutamine:D-fructose 6-phosphate amidotransferase in certain developmental mutants of <i>Neurospora crassa</i> ," <i>Molec. Gen. Genet.</i> , 129:77-86 [1974]
48	Selitrennikoff and Ostroff, "Emerging therapeutic cell wall targets in fungal infections," <i>Emerging Therapeutic Targets</i> 3:53-72 [1999]

Examiner:

Date Considered:

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: MYCOLOGX-06279		Serial No.: 09/927,734	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)				Applicant: Claude P. Selitrennikoff <i>et al.</i>			
				Filing Date: 8/10/2001		Group Art Unit:	
(37 CFR § 1.98(b))							
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)							
	49	Selitrennikoff and Sonneborn, "Post-translational control of <i>de Novo</i> cell wall formation during <i>Blastocladiella emersonii</i> zoospore germination," <i>Develop. Biol.</i> , 54:37-51 [1976]					
	50	Selitrennikoff and Sonneborn, "The last two pathway-specific enzyme activities of hexosamine biosynthesis are present in <i>Blastocladiella emersonii</i> zoospores prior to germination," <i>Biochim. Biophys. Acta.</i> , 451:408-416 [1976]					
	51	Sheehan, "Current and emerging azole antifungal agents," <i>Clin. Microbiol. Rev.</i> 12:40-79 [1999]					
	52	Singh and Datta, "Induction of N-acetylglucosamine-catabolic pathway in spheroplasts of <i>Candida albicans</i> ," <i>Biochem. J.</i> 178:427-431 [1979]					
	53	Sigler and Kennedy, " <i>Aspergillus</i> , <i>Fusarium</i> , and other opportunistic moniliaceous fungi," In Murray <i>et al.</i> (eds.), <i>Manual of Clinical Microbiology</i> , 7th edition, (Washington DC: ASM Press) pp. 1213-1241 [1999]					
	54	Smith <i>et al.</i> , "Isolation and characterization of the <i>GFAI</i> gene encoding the glutamine:fructose-6-phosphate amidotransferase of <i>Candida albicans</i> ," <i>J. Bacteriol.</i> , 178:2320-2327 [1996]					
	55	Smits <i>et al.</i> , "Cell wall dynamics in yeast," <i>Curr. Opin. Microbiol.</i> 2:348-352 [1999]					
	56	Sun <i>et al.</i> , "The crystal structure of a multifunctional protein: Phosphoglucose isomerase/autocrine motility factor/neuroleukin," <i>Proc. Natl. Acad. Sci. USA</i> 96:5412-5417 [1999]					
	57	Tokumura and Horie, "Kinetics of nikkomycin Z degradation in aqueous solution and in plasma," <i>Biol. Pharm. Bull.</i> , 20:577-580 [1997]					
	58	Walsh and Dixon, "Spectrum of mycoses," In Baron (ed.), <i>Medical Microbiology</i> , 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 919-925 [1996]					
	59	Warnock, "Fungal infections in neutropenia: current problems and chemotherapeutic control," <i>J. Antimicrob. Chemother.</i> , 41:95-105 [1998]					
	60	Warren and Hazen, " <i>Candida</i> , <i>Cryptococcus</i> , and other yeasts of medical importance," In Murray <i>et al.</i> (eds.), <i>Manual of Clinical Microbiology</i> , 7th edition, (Washington, DC: ASM Press) pp. 1184-1199 [1999]					
	61	Watzel and Tanner, "Cloning of the glutamine:fructose-6-phosphate amidotransferase gene from yeast," <i>J. Biol. Chem.</i> , 264:8753-8758 [1989]					
	62	White, "Antifungal drug resistance in <i>Candida albicans</i> ," <i>ASM News</i> 63:427-433 [1997]					
	63	White <i>et al.</i> , "Clinical, cellular, and molecular factors that contribute to antifungal drug resistance," <i>Clin. Microbiol. Rev.</i> , 11:382-402 [1998]					
	64	Winterburn and Phelps, "Purification and some kinetic properties of rat liver glucosamine synthetase," <i>Biochem. J.</i> , 121:701-709 [1971]					
	65	Zalkin, "Glucosamine-6-phosphate synthase," <i>Methods Enzymol.</i> , 113:278-281 [1985]					
	66	Zhou <i>et al.</i> , "Regulation of glutamine:fructose-6-phosphate amidotransferase by cAMP-dependent protein kinase," <i>Diabetes</i> 47:1836-1840 [1998]					
	67	GenBank™ accession number AF185571					
	68	GenBank™ accession number U40369					
	69	GenBank™ accession number X14672					
	70	http://dtp.nci.nih.gov/docs/compare/compare%5Fmethodology.html					
Examiner:				Date Considered:			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							